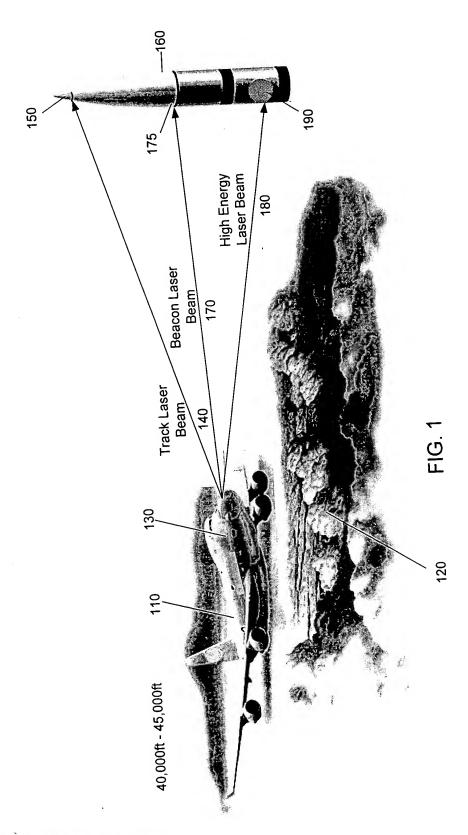
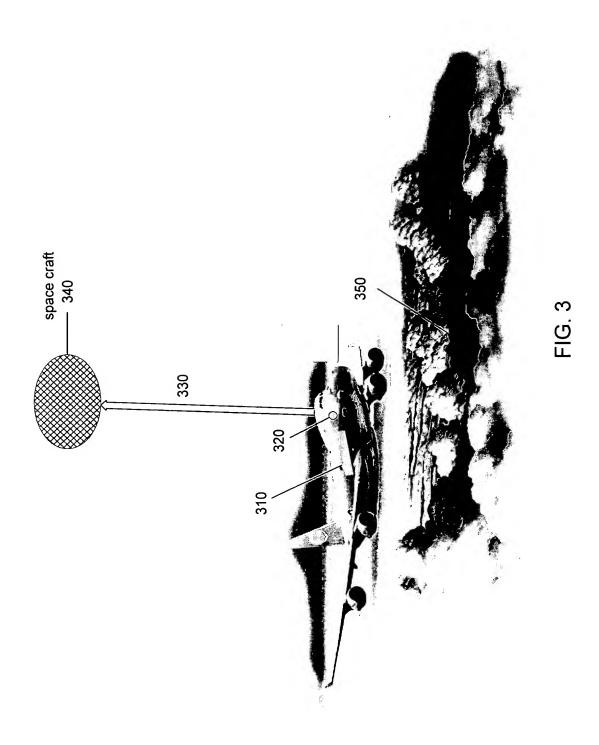
040092-019310US, Appln No. 10/611,802 Daniel Mao, Reg. No. 51,995 Telephone: 650-326-2400 Title: Method and System for Wavefront Compensation Inventor: Kenneth William Billman Drawing Sheet 1 of 12



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Daniel Mao, Reg. No. 51,995
Telephone: 650-326-2400
Title: Method and System for Wavefront Compensation
Inventor: Kenneth William Billman
Drawing Sheet 3 of 12



Daniel Mao, Reg. No. 51,995
Telephone: 650-326-2400
Title: Method and System for Wavefront Compensation Inventor: Kenneth William Billman
Drawing Sheet 10 of 12 BILL MBIL Bench IRTU Retro Mirror Laser Segment **Fracker** ie E nator MBIL (TILL) Wave-Beaco front MBIL BILL Shutter BWM BWM Laser Bean Sampler dignment Sensor CPCM ָּרְיּאַנוּרְרְּ Mirror 920 Steer. S Fast ₽ # 뒫 aft cal source BS BS Beam Walk Source **Σ** & i SABILL | Fine Tracker BS 6 Range Ryend BILL Retro polarizing) (polarizing) RATILL / STHEL _{зунег}... Oλ_{HEL} Focus Offload Walk 930 CP/CM Wavefront Sensor **BS 2** $|^{\mathsf{S}_{\lambda_{\mathsf{TILL}}}/^{\mathsf{R}_{\lambda_{\mathsf{PIR}}}}}$ JRTU Sensor BS 1 BS 4 **IRTU BS** Mirror 980 CP/CM Plume Tracker Rela Aperture Sharing Element // AIRTU SAHEL nostic Bench Diag-Red. BEAM TRANSFER ASSY Fast Steering Mirror FIG. 9 Retro Sub-aper ture retro 11L array Stabilization Compensation Deformable 990 Atten.7 **Atmospheric** Mirror (BTA) 950 Beam Walk **Paraboloid** (Notional) fwd cal ORATILL ORABILL Off-Axis Forward Flip-in PRAHEL PRAPIR /AIRTU PrimaryBulkhead! AIRTUBeam Walk Mirror #1 Conde, 1 **TURRET ASSY** Separate Aperture Acquisition Sensor IRTK 940 'Half Angle Mirror Z $^{
m R}\lambda_{
m PIR}$ Coude' 2 ONTILL ONBILL 1 ONHE YAW Mirror forward Aircraft RAHEL / RAPIR RATILL RABILL

Reflector Secondary

Mirror

Turret Window

810~

Laser (HEL)

Mid Opt Bench Bulkhead Wind

Aft Flip-in Off-Axis Paraboloid

COL

Beam Walk

910

Mirror #4

Turning Flat (Notional)

Fast Steering Mirror 970 Beam Cleanup

960 Beam Cleanup Deformable

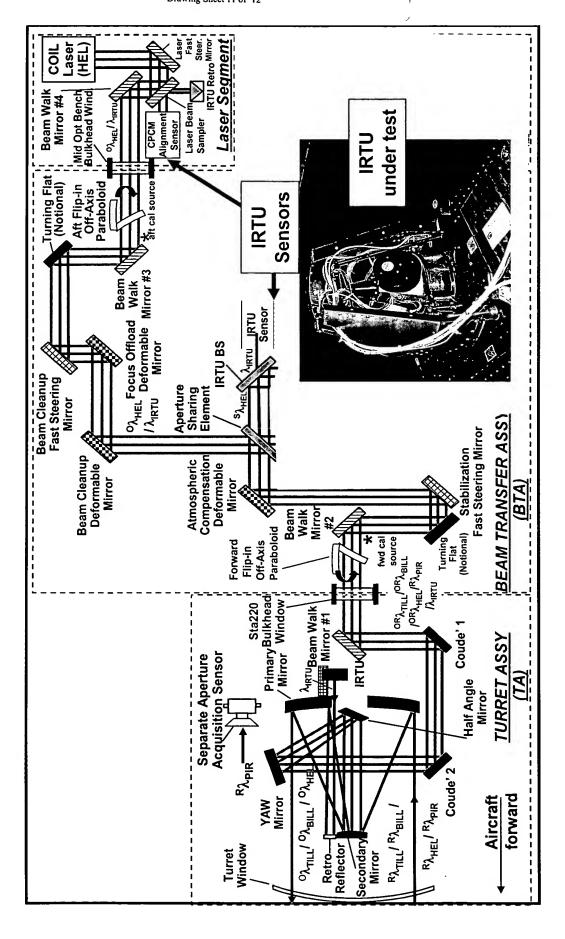


FIG. 10

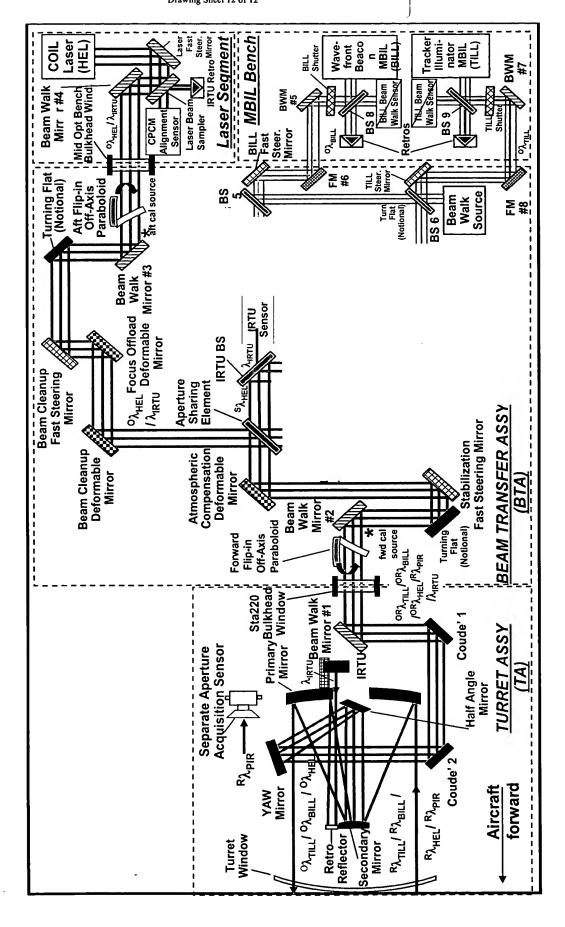


FIG. 11